

Claims

[c1] What is claimed is:

1. A method for testing an optical disc drive control PCB using a reference optical pick-up head, the method comprising:

a step for determining a value by comparing an output of an optical disc drive control PCB under test to an output of a reference optical pick-up head laser; and

a step for comparing the value to a predetermined value and accordingly determining whether the optical disc drive control PCB under test is acceptable.

[c2] 2. The method of claim 1, further comprising a step for adjusting the output of the optical disc drive control PCB.

[c3] 3. The method of claim 1, wherein the output of the reference optical pick-up head is from light emitted to a surface of an optical disc then reflected back to the optical pick-up head.

[c4] 4. The method of claim 1, further comprising generating a pass/fail indication accordingly to the determination of acceptability of the optical disc drive control PCB under test.

- [c5] 5. The method of claim 1, further comprising generating a graphical characterization of the comparison of the measured value to the predetermined value.
- [c6] 6. The method of claim 1, further comprising:
connecting the optical disc drive control PCB under test to the reference optical pick-up head; and
disconnecting the optical disc drive control PCB under test from the reference optical pick-up head when the test is complete.
- [c7] 7. The method of claim 6 wherein all steps are repeated for a batch of optical disc drive control PCBs under test.
- [c8] 8. A method for testing an optical disc drive control PCB using a reference optical pick-up head, the method comprising:
connecting the optical disc drive control PCB under test to the reference optical pick-up head;
determining a value by comparing an output of an optical disc drive control PCB under test to an output of a reference optical pick-up head laser; and;
comparing the value to a predetermined value and accordingly determining whether the optical disc drive control PCB under test is acceptable; and
disconnecting the optical disc drive control PCB under

test from the reference optical pick-up head.

- [c9] 9. The method of claim 8, further comprising a step for adjusting the output of the optical disc drive control PCB.
- [c10] 10. The method of claim 8, wherein the output of the reference optical pick-up head laser is measured using light emitted to a surface of an optical disc then reflected back to the reference optical pick-up head, or from light emitted by the laser directly via a polarizing beam splitter (PBS) of the reference optical pick-up head.
- [c11] 11. The method of claim 8, further comprising generating a pass/fail indication accordingly to the determination of acceptability of the optical disc drive control PCB under test.
- [c12] 12. The method of claim 8, further comprising generating a graphical characterization of the comparison of the measured value to the predetermined value.
- [c13] 13. The method of claim 8 wherein all steps are repeated for a batch of optical disc drive control PCBs under test.
- [c14] 14. An optical disc drive control PCB test assembly comprising:
 - a pick-up head for emitting and receiving laser light;
 - means for laser power monitoring;

means for comparing laser power with a predetermined value; and

means for electrically connecting an optical disc drive control PCB to the optical disc drive control PCB test assembly, wherein the optical disc drive control PCB test assembly may readily be used in the consecutive testing of a plurality of optical disc drive control PCBs.

[c15] 15. The device of claim 14, wherein the test assembly further comprises a means of presenting a pass/fail indication.

[c16] 16. The device of claim 14, wherein the test assembly further comprises a means of presenting a graphical characterization.

[c17] 17. The device of claim 14, wherein the test assembly further comprises a means of presenting guiding instructions to assist in the adjustment of the optical disc drive control PCB under test.